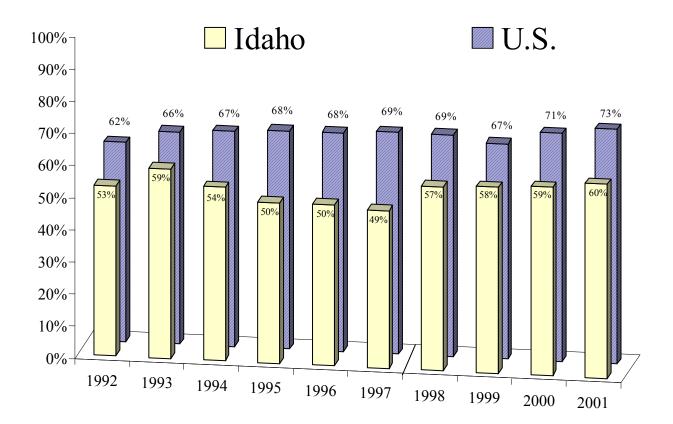
Safety Restraint Usage

Idaho's seat belt use law, effective July 1, 1986, requires seat belt use for front seat passengers and drivers, regardless of residency, in vehicles with a gross vehicle weight of 8,000 pounds or less that were manufactured with safety belts. The law is a "secondary" law and can only be enforced when someone is stopped for another traffic violation. Idaho's child restraint law is a primary enforcement law.

Figure 13 depicts observed shoulder harness use by year for both Idaho and the U.S. The figures are the observed rates for persons in passenger cars, pickups, sport utility vehicles, and vans, which make up around 93% of the vehicles involved in motor vehicle crashes. The U.S. usage rate is based on a combination of observational surveys from all 50 states.

Figure 13
Observed Seat Belt Usage – Idaho vs. U.S.: 1992 - 2001



The methodology for the observational seat belt survey was changed in 1998 in accordance with the National Highway Traffic Safety Administration (NHTSA) guidelines. Comparisons of 1998 and future surveys to historical data (1986-1997 surveys) should be made with caution as the new methodology differs greatly from the previous methodology.

Observational Seat Belt Survey Results

Table 26 shows the observed shoulder harness seat belt use by county.

| Table 26 Observed Seat Belt Use by County: 1998-2001 | | | | | | | | |
|---|-------|-------|-------|-------|---------------------|--------------------------|--|--|
| | 1998 | 1999 | 2000 | 2001 | Change 2000-2001 | Avg. Change 1998-2000 | | |
| Ada | 67.6% | 65.8% | 63.8% | 66.8% | 4.7% | -2.8% | | |
| Bannock | 42.3% | 48.7% | 49.5% | 56.0% | 13.1% | 8.4% | | |
| Bingham | 36.6% | 39.7% | 39.6% | 51.8% | 30.8% | 4.2% | | |
| Blaine | 48.8% | 48.9% | 38.9% | 52.3% | 34.4% | -10.2% | | |
| Bonner | 58.4% | 48.4% | 57.2% | 54.4% | -5.0% | 0.6% | | |
| Bonneville | 54.0% | 58.8% | 56.6% | 63.4% | 12.0% | 2.5% | | |
| Canyon | 57.8% | 62.9% | 58.3% | 58.3% | 0.0% | 0.8% | | |
| Cassia | 33.4% | 38.7% | 40.5% | 49.1% | 21.3% | 10.2% | | |
| Elmore | 52.7% | 47.3% | 55.0% | 57.7% | 4.8% | 3.0% | | |
| Kootenai | 60.6% | 53.4% | 64.6% | 59.5% | -7.9% | 4.5% | | |
| Latah | 58.6% | 60.5% | 61.5% | 57.6% | -6.3% | 2.4% | | |
| M adison | 43.7% | 41.6% | 45.1% | 49.7% | 10.2% | 1.8% | | |
| M inidoka | 29.5% | 35.6% | 44.3% | 48.1% | 8.5% | 22.6% | | |
| Nez Perce | 63.1% | 57.0% | 52.3% | 56.2% | 7.4% | -9.0% | | |
| Payette | 65.5% | 66.6% | 59.6% | 63.3% | 6.2% | -4.4% | | |
| Twin Falls | 39.8% | 46.4% | 52.6% | 54.4% | 3.5% | 15.0% | | |
| Statewide | 57.3% | 57.9% | 58.6% | 60.4% | 3.0% | 1.1% | | |

The Office of Highway Safety evaluates compliance rates through analysis of collision data and statewide observational surveys of seat belt use. Observational surveys are conducted by observing shoulder harness use or non-use. The observational survey is a representative sample of the State and does not include all counties.

Table 27 shows the observed seat belt use for the Idaho Transportation Department (ITD) districts⁴ by vehicle type. District 3 (south western Idaho) had the highest overall usage at 65%, while district 4 (south central Idaho) had the overall lowest usage at 51%.

| Table 27 Idaho Safety Belt Observation Survey: 2001 – Usage by Vehicle Type | | | | | | | |
|---|----------------|------------------------------------|---------------|--------------|--|--|--|
| ITD District | Passenger Cars | Vans and Sport Utility Vehicles | Pickup Trucks | All Vehicles | | | |
| 1 | 64.5% | 60.9% | 46.1% | 57.7% | | | |
| 2 | 59.6% | 58.8% | 59.9% | 56.6% | | | |
| 3 | 71.2% | 64.1% | 54.2% | 64.6% | | | |
| 4 | 56.6% | 60.6% | 35.4% | 51.0% | | | |
| 5 | 59.1% | 57.8% | 44.0% | 54.4% | | | |
| 6 | 63.1% | 61.7% | 37.7% | 56.4% | | | |
| Statewide | 66.7% | 62.2% | 48.8% | 60.4% | | | |

Usage rates for the occupants of pickup trucks continue to be significantly lower than usage rates for other types of passenger vehicles. The usage rate for pickup truck occupants in 2001 ranged from a high of 59.9% in District 2 (north central Idaho) to a low of 35.4% in District 4 (south central Idaho).

Seat belt usage varied by the type of roadway the vehicles were traveling on. It ranged from a high of 77.9% on urban interstates to a low of 47.2% on rural minor collectors. While there was virtually no difference between urban and rural sites, there was a difference of 7 percentage points between major and minor roads. The difference was not statistically significant. Major roads were defined as interstates and principal arterials. Minor roads were comprised of the rest of the roadway functional classifications.

Self-Reported Seat Belt Usage Results

Table 28 shows the self-reported seat belt use for people, ages 4 and older, in passenger cars, pickups, sport utility vehicles and vans that were killed or seriously injured. Research has indicated there is a tendency for persons involved in collisions to falsely report compliance with the seat belt law and thus, self-reported use tends to overstate actual use⁵. Seat belt use by severely or fatally injured occupants can be more directly assessed by law enforcement officers or emergency medical personnel, and is therefore, more reliable.

| Table 28 Self-Reported Seat Belt Use: 1998-2001 (Age 4 and older in Passenger Cars, Pickups, Sport Utility Vehicles, and Vans) | | | | | | | |
|--|-------|-------|-------|-------|------------------|--------------------------|--|
| Injury Type | 1998 | 1999 | 2000 | 2001 | Change 2000-2001 | Avg. Change 1998-2000 | |
| Fatalities -Restraints Used | 27.4% | 22.8% | 28.7% | 29.7% | 3.6% | 4.5% | |
| Serious Injuries -Restraint Used | 48.5% | 50.0% | 49.7% | 51.0% | 2.6% | 1.2% | |

Of the 212 motor vehicle occupants killed in 2001, only 63 were using seat belts. The National Highway Traffic Safety Administration estimates seat belts are 50% effective in preventing fatalities and serious injuries. By this estimate, we can deduce that 63 lives were saved in 2001 by seat belt usage. An additional 75 lives could have been saved if everyone had buckled up.

Costs of Injuries

Table 29 illustrates the costs of injuries sustained by occupants, over the age of four, of passenger vehicles for persons both using and not using safety restraints.

| Table 29 2001 Costs of Injuries Persons Using Safety Restraints versus Persons Not Using Safety Restraints | | | | | | | |
|--|----------|------------|---------------|---------------|--|--|--|
| | Safety F | Restraints | Costs of | Injuries | | | |
| Injury Type | Used | Not Used | Used | Not Used | | | |
| Fatality | 63 | 149 | \$190,644,732 | \$450,889,923 | | | |
| Serious Injury | 695 | 668 | \$145,602,296 | \$139,945,804 | | | |
| Visible Injury | 3,003 | 1,601 | \$125,825,523 | \$67,081,806 | | | |
| Possible Injury | 5,269 | 1,387 | \$116,517,917 | \$30,671,921 | | | |
| Total | | | \$578,590,468 | \$688,589,453 | | | |

The cost of injuries for persons not using safety restraints was \$110 million dollars more than for those who were using safety restraints. This is a conservative estimate of the difference. The true difference may be higher since many of the people may have falsely reported their seat belt usage. Assuming that 74% of the cost of collisions is passed on to the general public (page 9), every person in Idaho contributed about \$62 for those persons who chose not to buckle up.

Child Safety Seat – Self-Reported Usage

Table 30 shows self-reported child safety seat use for children, under age 4, in passenger cars, pickups, sport utility vehicles, and vans from 1998 to 2001. Overall, the use rate has increased from 72% in 1998 to 83% in 2001. Idaho Code requires every child, under the age of four, and weighing less than 40 pounds be restrained in a car safety seat that meets the federal standards when traveling in a noncommercial motor vehicle manufactured with seat belts after January 1, 1966.

| Table 30 Self-Reported Child Safety Seat Use by Injury Type: 1998-2001 (under age 4 in passenger cars, pickups, sport utility vehicles and vans) | | | | | | | |
|--|-------|-------|-------|-------|---------------------|--------------------------|--|
| Injury Type | 1998 | 1999 | 2000 | 2001 | Change 2000-2001 | Avg. Change 1998-2000 | |
| Fatalities | | | | | | | |
| Restrained | 2 | 4 | 1 | 0 | -100.0% | 12.5% | |
| Unrestrained | 6 | 1 | 0 | 3 | 300.0% | -91.7% | |
| Serious Injuries | | | | | | | |
| Restrained | 7 | 3 | 9 | 4 | -55.6% | 71.4% | |
| Unrestrained | 10 | 9 | 7 | 5 | -28.6% | -16.1% | |
| Visible Injuries | | | | | | | |
| Restrained | 38 | 51 | 32 | 37 | 15.6% | -1.5% | |
| Unrestrained | 36 | 35 | 20 | 24 | 20.0% | -22.8% | |
| Possible Injuries | | | | | | | |
| Restrained | 91 | 73 | 85 | 103 | 21.2% | -1.7% | |
| Unrestrained | 45 | 34 | 29 | 31 | 6.9% | -19.6% | |
| No Injuries | | | | | | | |
| Restrained | 1,326 | 1,262 | 1,414 | 1,367 | -3.3% | 3.6% | |
| Unrestrained | 459 | 317 | 285 | 247 | -13.3% | -20.5% | |
| Total Restrained | 1,469 | 1,396 | 1,553 | 1,525 | -1.8% | 3.1% | |
| Total Unrestrained | 562 | 397 | 348 | 318 | -8.6% | -20.9% | |
| % of Children Restrained | 72.3% | 77.9% | 81.7% | 82.7% | 1.3% | 6.3% | |

The National Highway Traffic Safety Administration estimates child safety seats are 69% effective in preventing fatalities and serious injuries. By this estimate we can deduce that child safety seats could have saved 2 of the 3 children killed in 2001. Additionally, 3 of the 5 unrestrained serious injuries may have been prevented if they had all been properly restrained.

Local Safety Restraint Usage

Table 31 presents self-reported restraint use rates for counties comparing 1998 through 2001. Collision data provides an analysis of the restraint use at the local level. This information is self-reported to the investigating officer after a collision. Self-reported usage is consistently higher than observational seat belt usage.

| Table 31 |
|--|
| Self-Reported Restraint Use by County: 1998-2001 |
| (persons in passenger cars, pickups, sport utility vehicles and vans only) |

| County by Population | 1998 | 1999 | 2000 | 2001 | Change 2000-2001 | Avg. Chang 1998-2000 |
|----------------------|-------|-------|-------|-------|---------------------|-------------------------|
| 50,000 and over | 1770 | | | 2001 | 2000 2001 | 1330 2000 |
| Ada | 83.3% | 82.8% | 84.1% | 85.5% | 1.7% | 0.5% |
| Bannock | 76.6% | 79.5% | 79.0% | 83.4% | 5.5% | 1.6% |
| Bonneville | 72.2% | 73.5% | 73.8% | 78.8% | 6.8% | 1.1% |
| Canyon | 75.7% | 78.7% | 78.2% | 78.5% | 0.3% | 1.7% |
| Kootenai | 81.8% | 82.4% | 84.9% | 84.3% | -0.6% | 1.9% |
| Twin Falls | 71.7% | 72.6% | 75.6% | 80.8% | 6.9% | 2.7% |
| 20,000 - 49,999 | | | | | | |
| Bingham | 61.2% | 63.1% | 67.9% | 71.6% | 5.5% | 5.4% |
| Bonner | 77.7% | 75.5% | 76.3% | 76.4% | 0.1% | -0.9% |
| Cassia | 68.2% | 65.6% | 71.2% | 72.5% | 1.9% | 2.4% |
| Elmore | 71.9% | 76.4% | 78.6% | 81.7% | 3.9% | 4.6% |
| Latah | 80.8% | 82.2% | 83.3% | 82.8% | -0.6% | 1.5% |
| M adison | 64.0% | 69.5% | 65.5% | 73.6% | 12.5% | 1.4% |
| Nez Perce | 81.8% | 80.8% | 82.1% | 84.4% | 2.8% | 0.2% |
| Payette | 75.0% | 76.9% | 81.4% | 75.9% | -6.8% | 4.2% |
| 10,000 - 19,999 | | | | | | |
| Blaine | 77.0% | 76.9% | 63.7% | 68.4% | 7.3% | -8.6% |
| Franklin | 65.3% | 70.3% | 70.8% | 67.1% | -5.1% | 4.2% |
| Fremont | 60.3% | 70.8% | 60.9% | 62.2% | 2.3% | 1.7% |
| Gem | 61.6% | 55.9% | 60.1% | 68.9% | 14.7% | -0.9% |
| Gooding | 54.6% | 58.5% | 62.4% | 63.4% | 1.6% | 6.9% |
| Idaho | 64.7% | 66.7% | 70.5% | 72.4% | 2.7% | 4.4% |
| Jefferson | 66.7% | 67.3% | 64.1% | 73.8% | 15.0% | -1.9% |
| Jerome | 73.5% | 69.6% | 68.5% | 74.0% | 8.0% | -3.4% |
| M inidoka | 64.6% | 59.2% | 66.2% | 68.3% | 3.1% | 1.7% |
| Owyhee | 63.7% | 63.9% | 60.0% | 65.7% | 9.5% | -2.9% |
| Shoshone | 67.5% | 65.1% | 68.6% | 70.4% | 2.5% | 0.9% |

Table 31 (Continued) Self-Reported Restraint Use by County: 1998-2001 (persons in passenger cars, pickups, sport utility vehicles and vans only)

| County by Population | 1998 | 1999 | 2000 | 2001 | Change 2000-2001 | Avg. Change 1998-2000 |
|----------------------|-------|-------|-------|-------|---------------------|--------------------------|
| 5,000 - 9,999 | | | | | | |
| Bear Lake | 64.1% | 61.8% | 55.5% | 66.9% | 20.5% | -6.9% |
| Benewah | 66.3% | 66.1% | 60.4% | 59.7% | -1.3% | -4.4% |
| Boise | 70.9% | 78.7% | 76.2% | 76.2% | -0.1% | 3.9% |
| Boundary | 74.1% | 74.7% | 78.6% | 72.0% | -8.4% | 3.0% |
| Caribou | 61.3% | 65.0% | 66.3% | 73.8% | 11.2% | 4.0% |
| Clearwater | 73.5% | 61.1% | 69.7% | 61.9% | -11.2% | -1.4% |
| Lemhi | 43.4% | 41.3% | 34.9% | 34.9% | -0.1% | -10.1% |
| Power | 74.3% | 66.8% | 65.0% | 73.2% | 12.6% | -6.4% |
| Teton | 63.3% | 53.8% | 73.1% | 67.5% | -7.8% | 10.5% |
| Valley | 74.2% | 82.1% | 74.0% | 77.1% | 4.2% | 0.4% |
| Washington | 61.9% | 62.4% | 68.7% | 68.0% | -1.0% | 5.5% |
| 0 - 4,999 | | | | | | |
| Adams | 70.8% | 69.3% | 79.6% | 79.6% | 0.0% | 6.4% |
| Butte | 41.4% | 54.2% | 68.8% | 73.9% | 7.4% | 28.9% |
| Camas | 55.2% | 63.2% | 48.4% | 67.3% | 39.1% | -4.5% |
| Clark | 79.1% | 82.1% | 86.8% | 86.0% | -0.9% | 4.7% |
| Custer | 63.1% | 73.8% | 70.1% | 68.6% | -2.2% | 6.0% |
| Lewis | 57.2% | 60.2% | 64.1% | 68.1% | 6.2% | 5.8% |
| Lincoln | 61.8% | 53.0% | 76.7% | 69.0% | -10.1% | 15.3% |
| Oneida | 61.3% | 64.9% | 73.5% | 75.4% | 2.5% | 9.6% |
| Statewide Average | 74.5% | 76.3% | 77.5% | 79.7% | 2.8% | 2.0% |